CEMP-ET Engineer Regulation 1110-3-110	Department of the Army U.S. Army Corps of Engineers Washington, DC 20314-1000	ER 1110-3-110 30 April 1992
	Engineering and Design INFORMATION SYSTEMS DESIGN IN SUPPORT OF MILITARY CONSTRUCTION	
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Regulation
No. 1110-3-110 30 April 1992

Engineering and Design
INFORMATION SYSTEMS DESIGN IN SUPPORT OF MILITARY CONSTRUCTION

1. Purpose. This regulation prescribes the administrative procedures and responsibilities involved in the design of information systems in support of Army military construction.

2. Applicability. This regulation is applicable to all HQUSACE/OCE elements, major subordinate commands, districts, and field operating activities (FOA) involved in the design of information systems in support of Army military construction, including Army medical facilities.

3. References.

a. AR 25-3.

b. AR 415-15

c. TM 5-811-2.

d. TM 5-811-9.

e. ER 1110-345-100.

f. ASR 25-3 (US Army Information Systems Command Regulation, available from: Commander US Army Information System Command ATTN: ASOP-D, Ft. Huachuca, AZ 85613-5000)

g. Architectural and Engineering Instructions, Medical Design Standards which is available from the design criteria information system (DCIS) on the Program and Execution (PAX) system and on the Construction Criteria Base (CCB) compact disk system available from the National Institute of Building Sciences (NIBS).

h. Architectural and Engineering Instructions, Design Criteria which is available from the DCIS on the PAX system and on the CCB compact disk system available from NIBS.

4. Policy. The design of information systems included in Army construction projects, and cited in AR 25-3, especially (but not limited to) voice/data telephone systems, is under the leadership of the US Army Information Systems Command (USAISC). The design of most other information systems in Army military construction

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projects, and cited in TM 5-811-2, especially (but not limited to) master television antenna, public address, nurse call, radio paging, intrusion detection, and energy monitoring and control systems, are under the leadership of the US Army Corps of Engineers (USACE).

a. In most Army military construction projects, all required information systems will be included in the USACE design and installation contracts.

b. For all but Army medical facility projects, USAISC and/or MACOM DCSIM have the option of:

(1) Designing the USAISC-technical-proponent portion of the information system for incorporation into the USACE construction contract by the responsible construction project design agent.

(2) Designing and installing the USAISC-technical-proponent portion of the information system.

5. Responsibilities.

a. USAISC and/or MACOM DCSIM. USAISC and/or MACOM DCSIM are responsible for the integrity of the USAISC-technical-proponent portion of the information systems. In this capacity, USAISC and/or MACOM DCSIM will:

(1) Perform a technical review of the design for all USAISC-technical-proponent portions of information systems, regardless of who performs the design.

(2) Send copies of all designs done under the auspices of USAISC and/or MACOM DCSIM to the responsible construction project design agent for review prior to contract award.

(3) For all projects where USAISC and/or MACOM DCSIM have assumed design or design and installation responsibility for the USAISC-technical-proponent portion of the information system, assist in the development of a letter of intent with the responsible construction project design agent. The letter of intent will clearly define the functions of both the construction project design agent and the information system design agent during the design process. The letter of intent will be executed before the construction project design agent has been issued a project Code 2 Directive initiating design. Designs for USAISC-technical proponent portion of information systems that will be included in the USACE construction contract will be prepared in Corps of Engineers guide specification format.

b. HQUSACE/OCE. CEMP-E is assigned oversight and technical proponent responsibility for criteria and standards governing the

design of information systems for which USACE is the Army technical proponent and criteria and standards for incorporating USAISC-technical-proponent information systems in Army military construction projects. In this capacity, CEMP-E will:

(1) Develop and maintain Army Technical Manuals in the TM 5-series, appropriate Corps of Engineers Guide Specifications, Engineering Technical Letters, Architectural and Engineering Instructions, and other guidance pertaining to the design of USACE and USAISC-technical-proponent information systems.

(2) Program and request fiscal and, where appropriate, manpower resources, as needed to accomplish the criteria development and maintenance responsibilities.

(3) Provide general, technical, and administrative oversight of USACE major subordinate command activities related to the design of information systems in support of Army military construction.

(4) Act as intermediary in the resolution of issues where differences of technical opinion may occur between USACE major subordinate commands and USAISC and/or MACOM DCSIM elements involved in mutually dependent activities related to the design of information systems in support of Army military construction.

(5) Ensure proper programming of the construction funded portion of the information systems per AR 415-15 on DD Form 1391 during military construction project programming and design development cycles.

(6) Provide representation on the Joint USACE-USAISC Standing Committee established for the purpose of insuring proper incorporation of information systems into Army military construction projects.

(7) Provide for the design and installation of the USAISC-technical-proponent portion of the information system for Army medical facility projects. USACE has the option of requesting that USAISC and/or MACOM DCSIM design these systems for inclusion in the USACE construction contract.

c. USACE Major Subordinate Commands. Major subordinate commands will exercise routine oversight of technical and other design-related activities of USACE district commands pertaining to information systems in support of Army military construction.

d. USACE Construction Project Design Agents. Construction project design agents will implement the design of information systems in support of Army military construction projects in the manner prescribed below:

(1) Prior to the issuance of a project Code 2 Directive initiating design, coordinate with the appropriate USAISC and/or MACOM DCSIM elements to determine whether USAISC and/or MACOM DCSIM have elected to be the design agent for the USAISC-technical-proponent portion of the information system.

(2) Provide for the design of those information systems for which USACE is technical proponent in the manner prescribed by ER 1110-345-100.

(3) For those projects where USAISC and/or MACOM DCSIM have assumed the design or the design and installation responsibility for the USAISC-technical-proponent portion of the information system:

(a) Take the lead to develop a letter of intent with the responsible USAISC and/or MACOM DCSIM elements. The letter of intent will clearly define the functions of both the construction project design agent and the USAISC and/or MACOM DCSIM element responsible for the USAISC technical proponent portion of the information system during the design process. The letter of intent will be executed before the construction project design agent has been issued a project Code 2 Directive initiating design.

(b) Coordinate project design execution schedules with the appropriate USAISC and/or MACOM DCSIM elements, to ensure that such activities result in the completion of the design of interdependent information systems components, such as interior and exterior raceway systems, within the design scheduling constraints for such projects.

(c) Perform constructability and design coordination reviews of USAISC and/or MACOM DCSIM designs to ensure that the completed project designs will result in biddable and buildable projects. A complete technical review of USAISC and/or MACOM DCSIM generated designs by the construction project design agent is not required.

(d) Incorporate the USAISC and/or MACOM DCSIM prepared drawings and specification sections for the USAISC-technical-proponent portion of the information system into the USACE construction contract for those projects for which USAISC and/or MACOM DCSIM have assumed only design responsibility.

(4) For those projects where USACE will design and install the USAISC-technical-proponent portion of the information systems:

(a) Provide for the design of the USAISC-technical-proponent portion of the information systems. The design of the USAISC

technical-proponent portion of the information systems may be executed in-house only if the construction project design agent has experienced telecommunications personnel on their staff, otherwise the design will be performed by a qualified AE. The major subordinate command will certify, in writing to HQUSACE (CEMP-ET), that the construction project design agent has experienced telecommunications personnel on their staff prior to any in-house design efforts.

(b) Assure that AEs selected to design the USAISC-technical-proponent portion of the information systems have demonstrated experience and high levels of competence and expertise with the types of information systems required by such projects, and with the military construction process.

(c) Coordinate project design execution schedules with the appropriate USAISC and/or MACOM DCSIM technical review elements, to ensure that such activities result in the completion of design reviews within the design scheduling constraints for such projects.

(d) Perform constructability and design coordination reviews to ensure that completed project designs will result in biddable and buildable projects.

e. General. The USACE construction project design agent will not design the USAISC-technical-proponent portion of the information systems if they will not be the construction agent. However, the responsible USAISC and/or MACOM DCSIM activity may elect to execute all or part of the acquisition and/or installation of the USAISC-technical-proponent portion of the information systems segment of a construction project at any point before the start of the 95% design phase.

6. Recommendations for Improvement. Comments and recommendations concerning this regulation are welcome. They should be submitted on DA Form 2028 to HQUSACE (CEMP-ET), Washington, D.C. 20314-1000.

FOR THE COMMANDER:

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